# BRAIN RESEARCH

**VOL. 889 NOS. 1,2** **CONTENTS** **19 JANUARY 2001**

*Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – EMBASE/Excerpta Medica – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Elsevier BIOBASE/Current Awareness in Biological Sciences*


*Announcements*


Floyd E. Bloom appointed as Co-Editor-in-Chief of ***Brain Research*** v

Brain Research Interactive Young Investigator Awards vi

Electronic submission of all article types via the WWW now possible vii

Call for Papers – Gene Expression Patterns viii

*Interactive reports* (Also accessible on the World Wide Web at **http://www.elsevier.nl/locate/bres** or **http://www.elsevier.com/locate/bres)**

Long-term changes in motor cortical organisation after recovery from subcortical stroke
M.L. Byrnes, G.W. Thickbroom, B.A. Phillips, F.L. Mastaglia (Australia) 278

Vestibular efferent neurons project to the flocculus
M.E. Shinder, I.M. Purcell, G.D. Kaufman, A.A. Perachio (USA) 288

Inflammatory pain reduces correlated activity in the dorsal column nuclei
H.D. Schwark, O.B. Ilyinsky (USA) 295

The effect of age on the response of the rat brains to continuous β-amyloid infusion
S. Nag, F. Tang (PR China) 303

Serum withdrawal causes apoptosis in SHSY 5Y cells
M.R. Macleod, T.E. Allsopp, J. McLuckie, J.S. Kelly (UK) 308

The teleostean (zebrafish) dopaminergic system ascending to the subpallium (striatum) is located in the basal diencephalon (posterior tuberculum)
E. Rink, M.F. Wullimann (Germany) 316

Leflunomide inhibits activation of inducible nitric oxide synthase in rat astrocytes
Dj. Miljkovic, T. Samardzic, M. Mostarica Stojkovic, S. Stosic-Grujicic, D. Popadic, V. Trajkovic (Yugoslavia) 331

Diurnal daylight phase affects the temporal properties of both the b-wave and d-wave of the human electroretinogram
M.W. Hankins, S.R. Jones, A. Jenkins, A.B. Morland (UK) 339

Transplantation of nasal olfactory tissue promotes partial recovery in paraplegic adult rats
J. Lu, F. Féron, S.M. Ho, A. Mackay-Sim, P.M.E. Waite (Australia) 344

Estradiol tends to improve inhibitory avoidance performance in adrenalectomized male rats and reduces pyknotic cells in the dentate gyrus of adrenalectomized male and female rats
C.A. Frye (USA) 358

*Research reports*

The posterior hypothalamic area: chemoarchitecture and afferent connections
E.E. Abrahamson, R.Y. Moore (USA) 1

Immunohistochemical localization of the neuropeptide Y Y1 receptor in rat central nervous system
K. Migita, A.D. Loewy, T.V. Ramabhadran, J.E. Krause, S.M. Waters (USA) 23

Colon and anal sphincter contractions evoked by microstimulation of the sacral spinal cord in cats
C. Tai, A.M. Booth, W.C. de Groat,, J.R. Roppolo (USA) 38

Conjugation of brain-derived neurotrophic factor to a blood–brain barrier drug targeting system enables neuroprotection in regional brain ischemia following intravenous injection of the neurotrophin
Y. Zhang, W.M. Pardridge (USA) 49

The regulation of NMDA-evoked dopamine release by nitric oxide in the frontal cortex and raphe nuclei of the freely moving rat
J.C.E. Smith, P.S. Whitton (UK) 57

$K_{ATP}$ channel blockers selectively interact with $A_1$-adenosine receptor mediated modulation of acetylcholine release in the rat hippocampus
B. Sperlágh, G. Zsilla, E.S. Vizi (Hungary) 63

Pubertal and seasonal plasticity in the amygdala
R.D. Romeo, C.L. Sisk (USA) 71

Characteristics of spontaneous and evoked GABAergic synaptic currents in cardiac vagal neurons in rats
J. Wang, M. Irnaten, D. Mendelowitz (USA) 78


*(Contents continued inside)*

0006-8993(20010119)889:1/2;1-6

*(contents continued)*


Central interactions between angiotensin II and $PGD_2$ in the regulation of vasopressin and oxytocin secretion in dehydrated rats
M. Kadekaro, M.L. Terrell, V. Bui, J.Y. Summy-Long (USA) 84

Oxyhemoglobin produces apoptosis and necrosis in cultured smooth muscle cells
K. Ogihara, K. Aoki, A.Y. Zubkov, J.H. Zhang (USA) 89

Nitric oxide in the potassium-induced response of the rat middle cerebral artery: a possible permissive role
E.M. Golding, M.L. Steenberg, T.D. Johnson, R.M. Bryan Jr. (USA) 98

Isoforms of protein kinase C in postsynaptic densities after cerebral ischemia
B. Zablocka, B. Gajkowska, T. Czechmańska, K. Domańska-Janik (Poland) 105

Involvement of the amygdala in classical conditioning of eyeblink response in the rat
M. Neufeld, M. Mintz (Israel) 112

Effects of baclofen on colon inflammation-induced Fos, CGRP and SP expression in spinal cord and brainstem
Y. Lu, K.N. Westlund (USA) 118

Reduced glutathione, dithiothreitol and cytochrome P-450 inhibitors do not influence hypoxic chemosensory responses in the rat carotid body
A. Roy, A. Mokashi, C. Rozanov, P.A. Daudu, S. Lahiri (USA) 131

Maxadilan specifically interacts with PAC1 receptor, which is a dominant form of PACAP/VIP family receptors in cultured rat cortical neurons
I. Tatsuno, D. Uchida, T. Tanaka, N. Saeki, A. Hirai, Y. Saito, O. Moro, M. Tajima (Japan) 138

Behavioral suppression induced by cannabinoids is due to activation of the arachidonic acid cascade in rats
T. Yamaguchi, Y. Shoyama, S. Watanabe, T. Yamamoto (Japan) 149

Rat basal forebrain cholinergic lesion affects neuronal nitric oxide synthase activity in hippocampal and neocortical target regions
M. Hartlage-Rübsamen, R. Schliebs (Germany) 155

Focal ischemia induces transient expression of IL-6 in the substantia nigra pars reticulata
M. Dihné, F. Block (Germany) 165

Virol A, a toxic *trans*-polyacetylenic alcohol of *Cicuta virosa*, selectively inhibits the GABA-induced $Cl^-$ current in acutely dissociated rat hippocampal CA1 neurons
K. Uwai, K. Ohashi, Y. Takaya, Y. Oshima, K.-i. Furukawa, K. Yamagata, T. Omura, S. Okuyama (Japan) 174

The *Ginkgo biloba* extract EGb 761 rescues the PC12 neuronal cells from β-amyloid-induced cell death by inhibiting the formation of β-amyloid-derived diffusible neurotoxic ligands
Z.-x. Yao, K. Drieu, V. Papadopoulos (USA, France) 181

Role of preoptic and anterior hypothalamic cholinergic input on water intake and body temperature
A. Takahashi, E. Kishi, H. Ishimaru, Y. Ikarashi, Y. Maruyama (Japan) 191

Fetal intra-nigral ventral mesencephalon and kidney tissue bridge transplantation restores the nigrostriatal dopamine pathway in hemi-parkinsonian rats
Y.-H. Chiang, M. Morales, F.C. Zhou, C. Borlongan, B.J. Hoffer, Y. Wang (Taiwan, USA) 200

Reduction of copper,zinc-superoxide dismutase in knockout mice does not affect edema or infarction volumes and the early release of mitochondrial cytochrome *c* after permanent focal cerebral ischemia
M. Fujimura, Y. Morita-Fujimura, J.-C. Copin, T. Yoshimoto, P.H. Chan (USA, Japan) 208

Melatonin inhibits Arg–vasopressin release via $MT_2$ receptor in the suprachiasmatic nucleus-slice culture of rats
Y. Isobe, T. Torii, H. Nishino (Japan) 214

Effect of melatonin on circadian rhythm, locomotor activity and body temperature in the intact house sparrow, Japanese quail and owl
N. Murakami, T. Kawano, K. Nakahara, T. Nasu, K. Shiota (Japan) 220

*Short communications*

Immunosuppressive and non-immunosuppressive immunophilin ligands improve $H_2O_2$-induced cell damage by increasing glutathione levels in NG108-15 cells
K.-i. Tanaka, N. Fujita, M. Yoshioka, N. Ogawa (Japan) 225

Chronic exposure to aluminium decreases NADPH-diaphorase positive neurons in the rat cerebral cortex
L. Rodella, R. Rezzani, R. Lanzi, R. Bianchi (Italy) 229

Calcineurin A and calbindin immunoreactivity in the spinal cord of G93A superoxide dismutase transgenic mice
U. Knirsch, S. Sturm, A. Reuter, R. Bachus, G. Gosztonyi, H. Voelkel, A.C. Ludolph (Germany) 234

Hypothalamic atrial natriuretic peptide and secretion of oxytocin
R.S. Chriguer, M.J.A. Rocha, J. Antunes-Rodrigues, C.R. Franci (Brazil) 239

Trigeminally innervated iron-containing structures in the beak of homing pigeons, and other birds
M.N. Williams, J.M. Wild (New Zealand) 243

Altered glycosylation of cerebrospinal fluid butyrylcholinesterase in alzheimer's disease
J. Sáez-Valero, D.H. Small (Australia) 247

A different retinal glia response to optic nerve injury/lipopolysaccharide administration in hooded and albino rats
R. Engelmann, D.C. Dieterich, A. Bien, M.R. Kreutz (Germany) 251

Muscarinic cholinergic receptors subtypes in rat cerebellar cortex: light microscope autoradiography of age-related changes
S.K. Tayebati, D. Vitali, S. Scordella, F. Amenta (Italy) 256


*(Contents continued)*

*(contents continued)*

Gonadectomy unmasks an inhibitory effect of progesterone on amygdala kindling in male rats
H.E. Edwards, V. Mo, W.M. Burnham, N.J. MacLusky (Canada) 260
Estrogen stimulates the mitogen-activated protein kinase pathway in midbrain astroglia
T. Ivanova, M. Karolczak, C. Beyer (Germany) 264
Serotonin 2A receptor-like immunoreactivity is detected in astrocytes but not in oligodendrocytes of rat spinal cord
M. Maxishima, T. Shiga, F. Shutoh, S. Hamada, T. Maeshima, N. Okado (Japan) 270
NMDA receptor antagonist AP5 and nitric oxide synthase inhibitor 7-NI affect different phases of learning and memory in goldfish
X. Xu, T. Russell, J. Bazner, J. Hamilton (USA) 274

*Author index* 364

CONTENTS Direct

This journal is part of **ContentsDirect**, the ***free*** alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: **www.elsevier.nl/locate/contentsdirect**